| <br> | Clair |  |
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|      |       |  |

| Application/Control No | ion/Cont | ol No |
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10/632,565

Examiner

Chong H. Kim

Applicant(s)/Patent under Reexamination

HONDA ET AL.

Art Unit

3682

| √ | Rejected |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
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| ÷ | Restricted                     |

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| N | Non-Elected  |
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| - | Interference |

| A | Appeal   |
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| Cla      | aim      |  |          |          | - [  | Dat      | e  |  |  |                  | 1 | Cla                    | aim      | _        |          |          | 1            | Dat  | <u>е</u>   | - |
|----------|----------|--|----------|----------|--|----------|--|--|--|------------------|---|------------------------|----------|----------|----------|----------|--------------|--|--|---|
|          |          | 90   |          |          |  | П        |  | Γ  |  |                  | 1 |                        |          |          |          |          |              |  |  | T |
| 힐        | Original | M  | _        |          |  |          | l  |  | l  |                  |   | ब्रू                   | Original |          |          |          |              |  |  | I |
| Final    | , E      | 13   |          | ľ        | ļ  |          |  |  |  |                  |   | Final                  | ğ        |          |          |          |              | l  |  | l |
|          | 0        | 9  | ,        |          |  | 1        |  |  |  | ļ                |   | ,                      | 0        |          |          |          |              |  |  | I |
|          | 1        | V  |          |          |  |          |  |  |  |                  | 1 |                        | 51       |          | _        |          | $\vdash$     | $\overline{}$                                    |  | t |
|          | 2        | 1  |          |          | T  | T        | Г  |  |  |                  | 1 |                        | 52       |          |          |          |              | -  | 1  | t |
|          | 3        |  | _        |          | $\vdash$   | 一        | Т  | $\vdash$   | $\vdash$   | $\vdash$         | 1 |                        | 53       |          |          |          |              | $\vdash$   |  | t |
|          | 4        | Н  |          |          | <del>                                     </del> | $\vdash$ |  | ┢╌   | -  | $\vdash$         | 1 |                        | 54       | Н        |          | -        | $\vdash$     | -  |  | t |
| -        | 5        | <del>                                     </del> |          | -        | <del>                                     </del> | $\vdash$ | ┢  |  |  |                  | 1 |                        | 55       | _        | _        | _        | ┢            | _  | $\vdash$   | t |
|          | 6        | H  |          | $\vdash$ | T  | $\vdash$ | _  | _  | $\vdash$   | -                | 1 |                        | 56       | -        |          | _        | -            | <del>                                     </del> | $\vdash$   | t |
| 1        | 7        | ₩  | _        | -        | ┰  | $\vdash$ | <del> </del>                                     | ┢  | $\vdash$   | $\vdash$         | 1 |                        | 57       |          | _        |          | -            | ⊢  | $\vdash$   | t |
|          | 8        | N  | _        | -        | <del> </del>                                     | H        | <del>                                     </del> | _  | <del>                                     </del> | $\vdash$         | 1 | _                      | 58       |          | _        |          | -            | ⊢  | ╁  | t |
|          | 9        | M  | _        | $\vdash$ | <u> </u>   | H        | $\vdash$   | -  | ┝  | -                | 1 |                        | 59       |          |          | _        | ┢            | ╁  | ╁  | t |
| $\vdash$ | 10       | ┼╂┤  |          | -        | ╁  | $\vdash$ | -  | ┝  | ├─   | $\vdash$         | 1 |                        | 60       |          |          |          | ┢            | ⊢  | $\vdash$   | t |
| -        | 11       | 1/   | _        |          | <del> </del>                                     | ╁        | ⊢  |  | <del> </del>                                     | $\vdash$         | ł |                        | 61       |          |          | _        | ⊢            | ⊢  |  | ł |
| -        | 12       | y  |          | ┢        | -  | ╁        | ┢  | -  | $\vdash$   | $\vdash$         | 1 |                        | 62       | _        | _        | $\vdash$ | ⊢            | <del> </del>                                     | -  | ł |
| -        | 13       | <del>                                     </del> |          | -        | ⊢  | ┢        | -  | -  | -  | ⊢                | 1 |                        | 63       | _        | _        | _        | -            |  | -  | + |
| -        | 14       | H  | _        | ┝        | ├  | -        | ├  | ⊢  |  | _                | ł |                        | 64       | -        |          | _        | ┝            | ⊢  | ├  | + |
| -        | 15       | HH   |          | $\vdash$ | ⊢  | ├        | -  | -  | ⊢  | -                | { |                        | 64       |          |          |          | ⊢            | <u> </u>   | -  | ļ |
| $\vdash$ |          | <del>  [  </del>                                 |          | ļ        | <b>├</b> ─                                       | ┢        | <u> </u>   | <u> </u>   | ⊢  | <u> </u>         | ł |                        | 65       |          |          |          | <u> </u>     | -  | -  | ļ |
|          | 16       | H - I  | _        | <u> </u> | <del>  -</del>                                   | ┝        | _  | <u> </u>   | L  | <u> </u>         | 1 |                        | 66       |          |          |          | <u> </u>     | <u> </u>   | <u> </u>   | ļ |
| H        | 17       | HH   |          | <u> </u> | <b>├</b>   | <u> </u> |  | _  |  | <u> </u>         | ł |                        | 67       |          |          |          | ļ            | L  | _  | ļ |
|          | 18       | 11,1   |          | <u> </u> | <u> </u>   | <u> </u> | _  | L.   | _  | <u> </u>         |   |                        | 68       |          |          |          | <u> </u>     |  |  | ļ |
|          | 19       | V  |          | ļ        | ļ  | <u>_</u> |  | L  | _  | L                |   |                        | 69       |          | _        |          | _            | L.   | ᆫ  | ļ |
|          | 20       | N  |          | <u> </u> | _  | <u></u>  |  |  |  | L.               | 1 |                        | 70       |          |          |          | _            |  |  | l |
|          | 21       |  |          |          |  | <u>L</u> |  |  |  | L                |   |                        | 71       |          |          |          |              |  |  | l |
|          | 22       | Ш  |          | L_       |  | _        | _  | 匚  |  | L                | ] |                        | 72       |          |          |          |              | _  |  | l |
|          | 23       | Ш  |          |          |  | L        | _  | _  | _  |                  |   |                        | 73       |          |          |          |              |  |  |   |
|          | 24       | Ш  |          | L        |  | _        |  | <u> </u>   | _  |                  |   |                        | 74       |          |          |          |              |  |  | I |
|          | 25       |  |          |          |  | L        |  |  |  |                  | 1 |                        | 75       |          |          |          |              |  |  | Ι |
|          | 26       |  |          |          |  | <u>L</u> | <u>.                                    </u>     |  |  |                  |   |                        | 76       |          |          |          |              |  |  | T |
|          | 27       |  |          |          |  |          |  |  |  |                  | ] |                        | 77       |          |          |          |              |  |  | T |
|          | 28       |  |          |          |  | Γ        |  |  |  |                  | ] |                        | 78       |          |          |          |              |  |  | T |
|          | 29       |  |          |          |  |          |  | Γ  |  |                  | 1 |                        | 79       |          |          |          |              |  |  | T |
|          | 30       |  |          |          |  | Т        | П  |  |  |                  | 1 |                        | 80       |          |          |          |              |  |  | İ |
|          | 31       |  |          |          |  |          |  |  |  |                  | 1 |                        | 81       |          |          |          |              | $\vdash$   |  | t |
|          | 32       | İΠ   |          |          |  |          |  |  |  |                  | 1 |                        | 82       |          |          |          |              |  | <u> </u>   | t |
|          | 33       |  |          |          |  | -        |  | Г  |  |                  | 1 |                        | 83       | П        |          |          |              | $\vdash$   |  | Ì |
|          | 34       | П  |          |          | T  | 1        |  |  |  |                  | 1 |                        | 84       | $\vdash$ |          |          | Г            | T  | <del>                                     </del> | t |
|          | 35       | П  |          |          | Ī  | Γ        |  |  |  | $\Box$           | 1 |                        | 85       | П        |          |          | _            |  |  | t |
|          | 36       | П  |          |          |  | $\Box$   |  | Τ  | Т  | l                | 1 |                        | 86       | $\vdash$ |          |          | $\vdash$     | <u> </u>   | $\vdash$   | t |
|          | 37       | П  |          | Г        | <u> </u>   |          |  |  | $\vdash$   | $\vdash$         | 1 |                        | 87       | Н        |          |          | $\vdash$     | T  |  | t |
|          | 38       | П  |          |          |  | -        | $\vdash$   |  | $\vdash$   |                  |   |                        | 88       | Н        | -        | _        | Ι            | <del>                                     </del> | $\vdash$   | t |
|          | 39       | $\vdash$   | _        |          |  | <b>!</b> | $\vdash$   | $\vdash$   | <del>                                     </del> | $\vdash$         |   |                        | 89       | Н        |          | $\vdash$ | $\vdash$     |  | $\vdash$   | t |
|          | 40       | $\vdash$   | -        | $\vdash$ | $\vdash$   | 1        | ┢  | <del>                                     </del> | <del>                                     </del> | $\vdash$         | 1 | $\vdash$               | 90       | $\vdash$ | $\dashv$ | _        | $\vdash$     | -  | <del> </del>                                     | t |
| $\vdash$ | 41       | $\vdash$   | -        | $\vdash$ | $\vdash$   | 1        | $\vdash$   | $\vdash$   | _  | $\vdash$         |   | -                      | 91       | $\vdash$ | $\dashv$ | -        | $\vdash$     | -  | $\vdash$   | t |
| $\vdash$ | 42       | H  |          |          | $\vdash$   | $\vdash$ | -  |  | -  | $\vdash$         |   | $\vdash$               | 92       | Н        |          |          | H            | -  | -  | t |
| $\vdash$ | 43       | H  | $\dashv$ | $\vdash$ | <del>                                     </del> | $\vdash$ | _  | <del>                                     </del> | $\vdash$   | <del>  -  </del> |   | <del></del>            | 93       | $\dashv$ |          |          | $\vdash$     | $\vdash$   | $\vdash$   | t |
| $\vdash$ | 44       | $\vdash$   | -        |          | -  | +-       | <del> </del>                                     | $\vdash$   | $\vdash$   | $\vdash$         | 1 | $\vdash \vdash \vdash$ | 94       | $\dashv$ | $\dashv$ |          | Η-           | -  | ├  | ł |
| $\vdash$ | 45       | $\vdash$   | -        | -        | $\vdash$   | $\vdash$ | $\vdash$   | -  | $\vdash$   | $\vdash$         |   | <del></del>            | 95       | -        | $\dashv$ | _        | $\vdash$     | -  | <del> </del>                                     | ł |
| $\vdash$ | 46       | $\vdash \vdash$                                  | ᅱ        | -        | $\vdash$   | $\vdash$ | $\vdash$   | $\vdash$   |  | <del> </del>     |   | <del></del>            |          | -        | -        | -        | <del> </del> | -  | $\vdash$   | 1 |
| $\vdash$ | 47       | $\vdash\vdash$                                   | $\dashv$ | -        | $\vdash$   | -        | $\vdash$   | -  |  | <u> —</u>        |   |                        | 96       |          |          |          | $\vdash$     | -  | <del> </del>                                     | ł |
| $\vdash$ |          | $\vdash$   | -        | H        | ├-   | $\vdash$ | <del> </del>                                     | <b>—</b>   | $\vdash$   | ├—               |   | <u> </u>               | 97       |          |          |          | Ш            | $\vdash$   | <u> </u>   | ļ |
| $\vdash$ | 48       | $\vdash$   | $\dashv$ | -        | ⊢  | ├        | <u> </u>   | <u> </u>   | $\vdash$   | $\vdash$         |   |                        | 98       |          | _        |          | $\vdash$     | -  | <u> </u>   | ŀ |
|          | 49       | ⊢⊹   |          | $\vdash$ | ├  | -        | ⊢  | $\vdash$   | $\vdash$   | $\vdash$         |   | $\vdash$               | 99       |          |          | _        | _            | <u> </u>   | <u> </u>   | ļ |
|          | 50       | Ll   |          |          |  | L        | L_   | L  | L_   | ᆫ                | l |                        | 100      | $\Box$   |          |          | L_           |  | L  | l |

| Cla   | Claim    |  |               | Date                                |  |  |          |          |        |          |  |  |  |
|-------|----------|--|---------------|-------------------------------------|--|--|----------|----------|--------|----------|--|--|--|
|       |          |  |               | Γ                                   |  |  |          |          |        |          |  |  |  |
| जू    | ≗        |  |               |                                     |  |  |          | l        |        | ľ        |  |  |  |
| Final | Original |  | l             |                                     |  | l  |          | l        |        |          |  |  |  |
|       | 0        |  |               |                                     |  |  |          | ı        |        | ĺ        |  |  |  |
|       | 51       |  |               |                                     | Γ  |  |          |          | Г      |          |  |  |  |
|       | 52       |  |               |                                     |  |  |          |          |        |          |  |  |  |
|       | 53       |  |               |                                     |  |  |          |          |        |          |  |  |  |
|       | 54       |  |               | _                                   | Г  |  |          |          |        |          |  |  |  |
|       | 55       |  |               | Г                                   | Г  |  |          |          |        |          |  |  |  |
|       | 56       |  |               | T                                   |  | $\vdash$   |          | $\vdash$ |        |          |  |  |  |
|       | 57       |  |               |                                     | <del>                                     </del> | Г  |          |          | _      |          |  |  |  |
|       | 58       |  |               |                                     |  |  |          |          | $\Box$ |          |  |  |  |
|       | 59       |  | _             |                                     | Г  |  |          |          |        |          |  |  |  |
|       | 60       |  |               | _                                   | Т  |  |          |          |        |          |  |  |  |
|       | 61       |  |               | Т                                   | Т  | Т  |          |          |        | $\vdash$ |  |  |  |
|       | 62       |  |               | Т                                   | Г  |  |          |          |        |          |  |  |  |
|       | 63       |  |               | T                                   |  | <del>                                     </del> |          | Н        | _      |          |  |  |  |
|       | 64       |  |               |                                     | Г  | Г  |          |          |        | $\vdash$ |  |  |  |
|       | 65       |  |               | $\vdash$                            | Г  |  |          |          |        |          |  |  |  |
|       | 66       |  |               |                                     |  | -  |          |          |        |          |  |  |  |
|       | 67       |  |               | Г                                   |  | T  | Г        |          |        |          |  |  |  |
|       | 68       |  |               |                                     |  |  |          |          |        | _        |  |  |  |
|       | 69       |  | -             | $\vdash$                            | I  | _  | _        |          |        | _        |  |  |  |
|       | 70       |  | $\vdash$      |                                     |  |  |          |          |        |          |  |  |  |
|       | 71       |  | Г             | _                                   | $\vdash$   |  |          |          |        | _        |  |  |  |
|       | 72       |  | $\overline{}$ |                                     |  |  |          |          |        | _        |  |  |  |
|       | 73       |  |               |                                     |  |  |          |          |        | _        |  |  |  |
|       | 74       |  |               |                                     |  |  |          |          |        | _        |  |  |  |
|       | 75       |  |               |                                     |  |  | Г        | _        |        |          |  |  |  |
|       | 76       |  |               | _                                   | $\vdash$   | _  | <u> </u> | Г        |        |          |  |  |  |
|       | 77       |  | _             |                                     |  |  |          |          |        |          |  |  |  |
|       | 78       |  |               |                                     |  |  |          |          |        |          |  |  |  |
|       | 79       |  |               |                                     |  |  |          |          |        |          |  |  |  |
|       | 80       |  |               |                                     |  |  |          | Г        |        | _        |  |  |  |
|       | 81       |  |               |                                     |  | $\vdash$   |          |          |        |          |  |  |  |
|       | 82       |  |               |                                     |  |  |          |          | $\Box$ |          |  |  |  |
|       | 83       |  |               |                                     |  |  |          |          |        |          |  |  |  |
|       | 84       |  |               | I_                                  | Г  | $\Box$   |          |          |        |          |  |  |  |
|       | 85       |  |               |                                     |  |  |          |          |        |          |  |  |  |
|       | 86       |  |               |                                     |  |  |          |          |        |          |  |  |  |
|       | 87       |  |               |                                     |  |  |          |          |        |          |  |  |  |
|       | 88       |  |               |                                     |  |  |          |          |        |          |  |  |  |
|       | 89       |  |               |                                     |  |  |          |          |        |          |  |  |  |
|       | 90       |  |               |                                     | L  | L  |          |          |        |          |  |  |  |
|       | 91       |  |               |                                     |  |  |          |          |        |          |  |  |  |
|       | 92       |  |               |                                     |  |  |          |          |        |          |  |  |  |
|       | 93       |  |               |                                     |  |  |          |          |        |          |  |  |  |
|       | 94       |  |               | L                                   |  |  |          |          |        |          |  |  |  |
|       | 95       |  |               |                                     |  |  |          |          |        |          |  |  |  |
|       | 96       |  |               |                                     |  |  |          |          |        |          |  |  |  |
|       | 97       |  |               |                                     |  |  |          |          |        |          |  |  |  |
|       | 98       |  |               | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |  | L  |          |          |        |          |  |  |  |
|       | 99       |  |               |                                     |  |  |          |          |        |          |  |  |  |
| 1     | 100      |  |               |                                     |  |  |          |          |        |          |  |  |  |

| Cla      | Γ  |               |          |              | Date         | e  |  |          | $\neg$   |                 |
|----------|--|---------------|----------|--------------|--------------|--|--|----------|----------|-----------------|
|          | Original   |               |          |              |              | Π  |  |          |          | П               |
| <u>a</u> | 2  |               |          |              |              |  |  |          |          | ΙI              |
| Final    | ġ  |               |          |              |              |  |  |          |          | ΙI              |
| ш.       | ΙŏΙ  |               |          |              |              |  |  |          |          | ΙI              |
|          |  | <u> </u>      | -        | _            | <u> </u>     | _  | <u> </u>   | ļ        | ┞        | Ш               |
|          | 101<br>102<br>103  | _             | _        |              | _            | _  | L.   |          | L        | Ш               |
|          | 102  | _             |          | <u> </u>     |              | _  | L  | _        | <u> </u> | Ш               |
|          | 103  |               |          |              |              |  |  |          |          | Ш               |
|          | 104  |               |          |              |              |  |  |          |          |                 |
|          | 105  |               |          |              |              |  |  |          |          |                 |
|          | 106  |               |          |              |              |  |  |          | _        | П               |
|          | 107  |               |          |              |              |  | Г  | Г        | Г        | П               |
|          | 108  |               | $\vdash$ | T            | _            | Ĭ  | $\vdash$   | $\vdash$ | $\vdash$ | Н               |
|          | 108<br>109<br>110  | _             |          |              | -            | -  | -  | $\vdash$ | -        | $\vdash$        |
|          | 110  | -             | $\vdash$ | H            | ┢            | <del>                                     </del> | -  | _        | ┝        | Н               |
|          | 111  | -             | ┝        | ┢            | -            | -  | $\vdash$   | $\vdash$ | ⊢        | Н               |
|          | 142  | -             | Ι—       | ⊢            | <del> </del> | -  | $\vdash$   | ⊢        | $\vdash$ | Н               |
|          | 112  | <u> </u>      | <u> </u> | ├—           | <u> </u>     | $\vdash$   | $\vdash$   | <u> </u> | -        | $\vdash \vdash$ |
|          | 113<br>114<br>115  | <u> </u>      | -        | <u> </u>     | <b>—</b>     | <u> </u>   | <u> </u>   | <u> </u> | <u> </u> | Ш               |
|          | 114  | _             | <u> </u> | <u> </u>     |              | _  | <u> </u>   | <u> </u> | <u> </u> | Щ               |
|          | 115  |               | L_       | <u> </u>     | _            |  | <u> </u>   | _        | ota      | Ш               |
|          | 116  | _             | L        | L            |              |  |  | L        |          | Ш               |
|          | 116<br>117<br>118<br>119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129 |               | L        | L            | L            | L  | L  | L        | Ĺ        |                 |
|          | 118  |               |          |              |              |  |  |          |          |                 |
|          | 119  |               |          |              | П            |  |  |          |          | П               |
|          | 120  |               |          |              |              |  |  |          |          | П               |
|          | 121  | $\overline{}$ |          |              |              |  |  |          | $\vdash$ | Н               |
|          | 122  |               |          |              |              | _  |  |          |          | Н               |
|          | 123  |               |          |              |              | -  |  |          |          | $\vdash$        |
|          | 124  | _             | _        | $\vdash$     | $\vdash$     | -  | <del>                                     </del> | _        | ┢        | $\vdash$        |
|          | 125  | -             | _        |              |              | -  | -  |          | _        | Н               |
|          | 126  | _             | $\vdash$ | -            | _            | <del> </del>                                     |  |          | $\vdash$ | Н               |
|          | 127  | $\vdash$      | ┢┈       | -            | _            | -  | <del> </del>                                     |          | ┢        | Н               |
| _        | 128  |               | $\vdash$ | -            | _            |  | -  | _        | _        | Н               |
|          | 120  |               | ┝        | <u> </u>     | -            | $\vdash$   | <del> </del>                                     | _        | -        | Н               |
|          | 129  |               | _        | _            | _            | <u> </u>   | ├  | ⊢        | $\vdash$ | $\vdash$        |
| -        | 130  |               | _        |              | _            | $\vdash$   | ┡  |          | _        | Н               |
|          | 131  |               | <u> </u> | _            |              | <u> </u>   | <u> </u>   | <u> </u> | _        | Щ               |
|          | 130<br>131<br>132  |               | <u> </u> | <b>_</b>     | _            | L  | $\vdash$   |          | _        | Ш               |
|          | 133  |               |          |              |              | L_   | _  | _        | <u> </u> | Ш               |
|          | 134  |               | <u> </u> | $oxed{oxed}$ | L            | _  | _  | <u> </u> | L.       | Ш               |
|          | 135  |               |          |              | L            | <u>_</u>   | L_   | <u></u>  | <u> </u> | Ш               |
|          | 133<br>134<br>135<br>136   |               |          |              |              |  |  |          |          | Ш               |
|          | 137  |               |          |              |              |  |  |          |          |                 |
|          | 138<br>139   |               | L        |              |              | L  | L  | L        |          |                 |
|          | 139  |               |          |              |              | L  |  |          |          |                 |
|          | 140  |               |          |              |              |  |  |          |          |                 |
|          | 141  |               |          |              |              |  |  |          |          | П               |
|          | 142  |               |          |              |              |  |  | П        | Г        | П               |
|          | 143  |               |          |              |              |  | Г  |          | Г        | П               |
|          | 144  |               |          |              |              | <del>                                     </del> | $\vdash$   |          |          | Н               |
|          | 145  |               |          | -            |              | $\vdash$   | $\vdash$   | H        |          | Н               |
|          | 146  | -             | $\vdash$ | $\vdash$     |              | $\vdash$   |  | $\vdash$ | -        | Н               |
|          | 147  |               | -        | $\vdash$     | -            | $\vdash$   |  | $\vdash$ | -        | Н               |
|          | 148  |               | $\vdash$ | $\vdash$     |              | -  |  |          |          | $\vdash\dashv$  |
|          | 149  |               | $\vdash$ | $\vdash$     | _            | -  | $\vdash$   | $\vdash$ | $\vdash$ | $\dashv$        |
|          | 150  |               | _        | Н            |              | <u> </u>   | $\vdash$   | <u> </u> | $\vdash$ | $\dashv$        |
|          | 130  |               | Щ.       | $\Box$       | <u> </u>     | L  | Щ.   |          | Ш        | ш               |